

In the Claims

1. (amended) An isolated polynucleotide comprising a polynucleotide selected from the group consisting of:

- (a) a polynucleotide having the nucleotide sequence of SEQ ID NO: 1, 12 or 14;
- (b) a polynucleotide having the nucleotide sequence of the cDNA insert of clone pIL-1Hy2 (ATCC Accession No. PTA-96);
- (c) a polynucleotide having the IL-1Hy2 protein coding nucleotide sequence of a polynucleotide of (a) or (b).
- [(d) a polynucleotide having the mature protein coding sequence of

SEQ

ID NOS: 1, 12 or 14]

2. (amended) An isolated polynucleotide encoding a polypeptide with IL-1 Hy2 activity, comprising a polynucleotide selected from the group consisting of:

- (a) polynucleotides that encode the amino acid sequence of SEQ ID NO: 2;
- (b) polynucleotides that encode the amino acid sequence of SEQ ID NO: 13 and
- (c) polynucleotides that encode the protein encoded by the cDNA insert of clone pIL-1Hy2.

[(d) polynucleotides that encode the mature amino acid sequence of SEQ ID NOS: 2 or 13.]

3. (amended) An isolated polynucleotide [encoding a polypeptide with IL-1 Hy2 activity] which specifically binds to the nucleotide sequence of SEQ ID NO: 1, 12 or 14, wherein said polynucleotide [that] hybridizes [under stringent conditions] to the complement of a polynucleotide of any one of claims 1 or 2 under the following stringent conditions:

(a) hybridization at 65°C in a solution containing 0.5 M NaHPO₄, 7% sodium dodecyl sulfate (SDS), and 1 mM EDTA; and

(b) washing at 68°C in a solution containing 0.1 x SSC and 0.1% SDS.

6. (amended) The polynucleotide of claim [5] 3 which is selected from the group consisting of polynucleotides having the IL-1Hy2 protein coding sequence of SEQ ID NO: 1 and comprising one or more of the following nucleotide changes: T125C, C184T and A205C.

20. (amended) A method of producing [the] IL-1Hy2 polypeptide [of Claim 11] wherein the method comprises: [comprising,]

- a) culturing the host cell of claim 9 for a period of time sufficient to express the polypeptide contained within said cell; and
- b) isolating the polypeptide from the cell of step [1] a.